Special Issue

Sustainable Extraction and Reuse of Metallurgical Wastes: Towards Circular Practices

Message from the Guest Editors

The mining and metallurgical industries are crucial to the global economy, but they also pose significant environmental challenges. The generation of large volumes of solid and liquid wastes, often containing valuable metals and hazardous substances, necessitates sustainable management practices. In recent years, the concept of a circular economy has emerged as a promising approach to address these challenges. By minimizing waste generation, maximizing resource recovery, and promoting recycling and reuse, circular economy principles can help reduce the environmental impact of the mining and metallurgical industries. This Special Issue aims to explore innovative strategies for the sustainable extraction and reuse of metallurgical wastes. By fostering interdisciplinary research and collaboration, this Special Issue seeks to contribute to the development of sustainable and environmentally friendly solutions for the management of metallurgical wastes.

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Minerals welcomes submissions that report basic and applied research in mineralogy. Research areas of traditional interest are mineral deposits, mining, mineral processing and environmental mineralogy. The journal footprint also includes novel uses of elemental and isotopic analyses of minerals for petrology, geochronology and thermochronology, thermobarometry, ore genesis and sedimentary provenance. Contributions are encouraged in emerging research areas such as applications of quantitative mineralogy to the oil and gas, manufacturing, forensic science, climate change, geohazard and health sectors.

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